

83127-11_seq_list_mar_2008.ST25.txt SEQUENCE LISTING

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83127-11_seq_list_mar_2008.ST25.txt
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Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt),
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83127-11_seq_list_mar_2008.ST25.txt
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       xaa = alpha-aminoisobutyric acid (Aib),
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         Xaa = alpha-aminoisobutyric acid (Aib)
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        Xaa = beta-(3-pyridinyl)Ala (3Pal), beta-(2-pyridinyl)Ala (2Pal),
beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz),
beta-(2-thienyl)Ala (2Thi), beta-(2-furyl)-Ala (2Fua), Apc, or
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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
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83127-11_seq_list_mar_2008.ST25.txt
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Acarboxylic acid (Thz), 4-hydroxyPro (4Hy
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        xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)
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83127-11_seq_list_mar_2008.ST25.txt
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       Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)
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        Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)
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        28
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        PRT
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        Ghrelin Analog
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Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt),
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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
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        28
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Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)
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       Xaa = ornithine (Orn)
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83127-11_seq_list_mar_2008.ST25.txt
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        AMIDATION
<400>
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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
<210>
         59
        28
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        Ghrelin Analog
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        MISC_FEATURE
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         (7)..(7)
        Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt),
thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp),
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         pipecolic acid (Pip), 3,4-dehydroPro (Dhp), or 4-ketoPro (Ktp)
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1 10 15
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20 25
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       60
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       Artificial
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       Ghrelin Analog
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       (8)..(8)
       Xaa = alpha-aminoisobutyric acid (Aib)
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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
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       Ghrelin Analog
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       Xaa = alpha-aminoisobutyric acid (Aib)
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83127-11_seq_list_mar_2008.ST25.txt
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       Xaa = alpha-aminoisobutyric acid (Aib)
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       1-amino-1-cyclopentanecarboxylic acid (A5c),
       alpha-aminoisobutyric acid (Aib), or homoLeu
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       (28)..(28)
<223>
       AMIDATION
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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
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         (2)..(2)
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         Xaa = alpha-aminoisobutyric acid (Aib)
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         MOD_RES
<222>
         (3)..(3) modified with NH-hexyl
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<221>
         MISC_FEATURE
<222>
         (9)..(9)
        Xaa = beta-(3-pyridinyl)Ala (3Pal), beta-(2-pyridinyl)Ala (2Pal), beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz), beta-(2-thienyl)Ala (2Thi), alpha-aminoisobutyric acid (2Fua), Apc, or alpha-aminoisobutyric acid (Aib)
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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
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       Xaa = alpha-aminoisobutyric acid (Aib)
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       (3)..(3) modified with NH-hexyl
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        (7)..(7)
       Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt),
thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp),
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       Xaa = alpha-aminoisobutyric acid (Aib)
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        modified with NH-hexyl
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beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz),
beta-(2-thienyl)Ala (2Thi), alpha-aminoisobutyric acid (2Fua),
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83127-11_seq_list_mar_2008.ST25.txt
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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg

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        Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)
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4-amino-4-carboxytetrahydropyran (Act), Thr, or
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        (16)..(16)
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                                            10
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        modified with NH-hexyl
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beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz),
beta-(2-thienyl)Ala (2Thi), alpha-aminoisobutyric acid (2Fua),
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83127-11_seq_list_mar_2008.ST25.txt
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       pipecolic acid (Pip), 3,4-dehydroPro (Dhp), or 4-ketoPro (Ktp)
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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
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1 10 15
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<221>
<222>
       MISC_FEATURE
       (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
       (3)..(3) modified with NH-hexyl
<222>
<223>
<220>
<221>
       MOD_RES
<222>
       (5)..(5)
<223>
       AMIDATION
<400>
       94
Gly Xaa Glu Phe Leu
```

```
83127-11_seq_list_mar_2008.ST25.txt
<210> 95
<211>
       6
<212>
       PRT
       Artificial
<213>
<220>
<223> Ghrelin Analog
<220>
       MOD_RES
<221>
<222>
       (1)..(1) modified with acyl (Ac)
<223>
<220>
<221>
       MISC_FEATURE
<222>
        (2)..(2)
       Xaa = alpha-aminoisobutyric acid (Aib)
<223>
<220>
<221>
<222>
       MOD_RES
       (3)..(3)
        modified with NH-hexyl
<223>
<220>
<221>
<222>
       MOD_RES
        (6)..(6)
<223>
        AMIDATION
<400>
      95
Gly Xaa Glu Phe Leu Ser
<210>
       96
<211>
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
<222>
       MOD_RES
       (1)..(1) modified with acyl (Ac)
<223>
<220>
<221>
       MISC_FEATURE
<222>
        (2)..(2)
       Xaa = alpha-aminoisobutyric acid (Aib)
<223>
<220>
<221>
<222>
       MOD_RES
       (3)..(3) modified with NH-hexyl
<223>
<220>
<221>
<222>
<223>
       MOD_RES
        (7)..(7)
        AMIDATION
                                            Page 61
```

```
<400> 96
Gly Xaa Glu Phe Leu Ser Pro
1 5
<210>
       97
       28
<211>
<212>
       PRT
       Artificial
<213>
<220>
<223>
      Ghrelin Analog
<220>
       MOD_RES
<221>
<222>
       (1)..(1)
       modified with acyl (Ac)
<223>
<220>
<221>
<222>
       MISC_FEATURE
        (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
<222>
       (3)..(3) modified with NH-hexyl
<223>
<220>
<221>
<222>
       MOD_RES (28)..(28)
<223>
       AMIDATION
<400> 97
Gly Xaa Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       98
<211>
       8
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MOD_RES
<222>
       (1)..(1) modified with acyl (Ac)
<223>
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
                                           Page 62
```

```
83127-11_seq_list_mar_2008.ST25.txt
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
<222>
       MOD_RES
       (3)..(3) modified with NH-hexyl
<223>
<220>
       MISC_FEATURE
<221>
<222>
       (8)..(8)
<223>
       Xaa = Arg or Lys
<220>
<221>
<222>
       MOD_RES
       (8)..(8)
<223>
       AMIDATION
<400>
       98
Gly Xaa Glu Phe Leu Ser Pro Xaa
       99
<210>
       28
<211>
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MOD_RES
       (1)..(1) modified with acyl (Ac)
<222>
<223>
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
<222>
       (3)..(3)
<223>
       modified with NH-hexyl
<220>
<221>
       MISC_FEATURE
<222>
       (10)..(10)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
       AMIDATION
<223>
<400>
       99
Gly Xaa Glu Phe Leu Ser Pro Glu His Xaa Arg Val Gln Gln Arg Lys
```

```
83127-11_seq_list_mar_2008.ST25.txt
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
        100
<210>
<211>
        28
<212>
       PRT
<213>
        Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MOD_RES
<222>
        (1)..(1)
        modified with n-butyryl, isobutyryl, n-octanoyl, or acyl (Ac)
<220>
<221>
<222>
       MOD_RES
        (28)..(28)
<223>
        AMIDATION
<400>
       100
Gly Ser Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       101
<211>
       28
<212>
       PRT
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MOD_RES
<222>
       (1)..(1)
<223>
       modified with n-butyryl
<220>
<221>
<222>
       MISC_FEATURE
        (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
       (3)..(3) modified with NH-hexyl
<222>
<223>
<220>
<221>
<222>
       MOD_RES
       (28)..(28)
<223>
       AMIDATION
<400>
       101
```

```
Gly Xaa Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 10 15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
       102
<210>
<211>
       28
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MOD_RES
        (28)..(28)
<222>
<223>
        AMIDATION
<400>
       102
Gly Ser Ser Phe Leu Thr Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 10 15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       103
<211>
       28
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
<222>
       MISC_FEATURE
        (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
       (3)..(3) modified with NH-hexyl
<222>
<223>
<220>
<221>
<222>
       MOD_RES
        (28)..(28)
<223>
       AMIDATION
<400>
       103
Gly Xaa Glu Phe Leu Thr Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 10 15
```

```
83127-11_seq_list_mar_2008.ST25.txt
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
       104
<210>
<211>
       28
<212>
       PRT
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400>
       104
Gly Xaa Ser Phe Leu Thr Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       105
<211>
       28
       PRT
<212>
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MOD_RES
<222>
       (3)..(3)
<223>
       modified with NH-heptyl, O-hexyl, or NH-hexyl
<220>
       MOD_RES
<221>
<222>
       (28)..(28)
<223>
       AMIDATION
<400>
       105
Gly Ser Asp Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys

10
15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       106
```

```
83127-11_seq_list_mar_2008.ST25.txt
<211>
       28
<212>
       PRT
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MOD_RES
       (3)..(3) modified with NH-hexyl, or O-hexyl
<222>
<223>
<220>
<221>
       MOD_RES
<222>
        (28)..(28)
<223>
       AMIDATION
<400>
       106
Gly Ser Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 10 15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       107
<211>
       28
<212>
       PRT
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
        (1)..(1)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
<222>
<223>
       MOD_RES
        (28)..(28)
       AMIDATION
<400>
       107
Xaa Ser Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       108
<211>
       28
<212>
       PRT
       Artificial
<213>
<220>
```

```
83127-11_seq_list_mar_2008.ST25.txt
<223> Ghrelin Analog
<220>
<221>
<222>
       MOD_RES
        (3)..(3)
<223>
       modified with S(CH2)9CH3, or S-decyl
<220>
<221>
       MOD_RES
        (28)..(28)
<222>
<223>
       AMIDATION
       108
<400>
Gly Ser Cys Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
<210>
       109
<211>
       28
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
       MOD_RES
<221>
       (3)..(3) modified with NH-hexyl
<222>
<223>
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400>
       109
Gly Xaa Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 10 15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
       110
<210>
<211>
       28
<212>
       PRT
<213>
       Artificial
<220>
```

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83127-11_seq_list_mar_2008.ST25.txt
<223>
      Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (5)..(5)
<223>
       Xaa = Leu or Lys
<220>
<221>
       MOD_RES
       (28)..(28)
<222>
<223>
       AMIDATION
<400> 110
Gly Ser Ser Phe Lys Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
<210>
       111
<211>
       28
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
<222>
       MISC_FEATURE
       (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
       (3)..(3) modified with NH-hexyl
<222>
<223>
<220>
<221>
<222>
       MISC_FEATURE
       (9)..(9)
<223>
       Xaa = beta-(4-pyridinyl)Ala (4Pal)
<220>
<221>
       MISC_FEATURE
<222>
       (12)..(12)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
<222>
       MISC_FEATURE
       (15)..(15)
<223>
       Xaa = ornithine (Orn)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400>
       111
```

```
83127-11_seq_list_mar_2008.ST25.txt
Gly Xaa Glu Phe Leu Ser Pro Glu Xaa Gln Arg Xaa Gln Gln Xaa Lys
1 10 15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       112
<211>
       28
       PRT
<212>
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
<223>
       xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
<222>
       (3)..(3)
       modified with NH-hexyl
<220>
<221>
       MISC_FEATURE
<222>
<223>
       (8)..(8)
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400> 112
Gly Xaa Glu Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys
10 15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
<210>
       113
<211>
       28
<212>
       PRT
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
```

Xaa = alpha-aminoisobutyric acid (Aib)

<223>

<220>

```
83127-11_seq_list_mar_2008.ST25.txt
<221>
       MOD_RES
<222>
       (3)..(3)
<223>
       modified with NH-hexyl
<220>
<221>
<222>
       MISC_FEATURE
        (10)..(\underline{1}0)
       xaa = alpha-aminoisobutyric acid (Aib)
<223>
<220>
<221>
       MOD_RES
        (28)..(28)
<222>
<223>
       AMIDATION
<400>
       113
Gly Xaa Glu Phe Leu Ser Pro Glu His Xaa Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       114
<211>
       28
<212>
       PRT
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
       MISC_FEATURE
<221>
<222>
       (2)..(2)
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
       (3)..(3) modified with NH-hexyl
<222>
<223>
<220>
<221>
       MOD_RES
        (28)..(28)
<222>
<223>
       AMIDATION
<400>
       114
Gly Xaa Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       115
<211>
       28
<212>
       PRT
       Artificial
<213>
```

```
83127-11_seq_list_mar_2008.ST25.txt
<220>
<223>
        Ghrelin Analog
<220>
<221>
<222>
        MISC_FEATURE
        (2)..(2)
<223>
        Xaa = alpha-aminoisobutyric acid (Aib)
<220>
        MOD_RES
<221>
        (3)..(3) modified with NH-hexyl
<222>
<223>
<220>
<221>
        MISC_FEATURE
<222>
        (8)..(8)
        Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
<222>
<223>
        MOD_RES
        (28)..(28)
        AMIDATION
<400>
        115
Gly Xaa Glu Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys
1 10 15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
        116
<211>
       28
<212>
        PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
        (1)..(1)
<223>
       Xaa = Gly or des-Gly
<220>
<221>
<222>
       MISC_FEATURE
        (2)..(2)
<223>
       Xaa = des-Ser
<220>
       MOD_RES
<221>
        (28)..(28)
<222>
<223>
       AMIDATION
<400>
       116
Xaa Xaa Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 10 15
```

83127-11_seq_list_mar_2008.ST25.txt

```
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       117
<211>
       28
<212>
      PRT
<213>
       Artificial
<220>
<223> Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
       xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MISC_FEATURE
<222>
       (4)..(4)
       xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MISC_FEATURE
<222>
       (9)..(9)
<223>
       xaa = beta-(4-pyridinyl)Ala (4Pal)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400> 117
Gly Xaa Ser Xaa Leu Ser Pro Glu Xaa Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       118
<211>
       28
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
```

<221>

<222>

<223> <220> <221> <222>

<223>

MOD_RES

(1)..(1)

MISC_FEATURE (2)..(2)

modified with acyl (Ac)

xaa = alpha-aminoisobutyric acid (Aib)

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83127-11_seq_list_mar_2008.ST25.txt
<220>
<221>
       MISC_FEATURE
<222>
       (10)..(10)
       xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
<222>
       MOD_RES
       (28)..(28)
<223>
       AMIDATION
<400>
       118
Gly Xaa Ser Phe Leu Ser Pro Glu His Xaa Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       119
<211>
       28
<212>
       PRT
      Artificial
<213>
<220>
<223>
      Ghrelin Analog
<220>
<221>
       MOD_RES
       (1)..(1) modified with n-butyryl
<222>
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400> 119
Gly Xaa Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys 1 5 10 15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
      120
<211> 8
<212>
      PRT
      Artificial
<213>
<220>
<223> Ghrelin Analog
```

```
83127-11_seq_list_mar_2008.ST25.txt
<220>
<221>
       MOD_RES
       (1)..(1) modified with acyl (Ac)
<222>
<223>
<220>
<221>
       MISC_FEATURE
<222>
        (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
<222>
       MOD_RES
       (8)..(8)
<223>
       AMIDATION
<400> 120
Gly Xaa Ser Phe Leu Ser Pro Arg
       121
<210>
       28
<211>
<212>
       PRT
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (8)..(8)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400> 121
Gly Ser Ser Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       122
       28
<211>
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
<222>
       MISC_FEATURE
       (1)..(1)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
                                         Page 75
```

```
83127-11_seq_list_mar_2008.ST25.txt
```

```
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400>
       122
Xaa Ser Thr Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       123
<211>
      28
<212> PRT
      Artificial
<213>
<220>
<223>
      Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
       MOD_RES (28)..(28)
<221>
<222>
<223>
       AMIDATION
<400>
       123
Gly Xaa Thr Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       124
<211>
      28
<212>
      PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
       MISC_FEATURE
<221>
<222>
       (2)..(2)
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
<222>
       MISC_FEATURE
       (6)..(6)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib), or alpha-aminobutyric
                                         Page 76
```

```
83127-11_seq_list_mar_2008.ST25.txt
       acid (Abu)
<220>
<221>
<222>
       MOD_RES
       (28)..(28)
<223>
       AMIDATION
<400>
       124
Gly Xaa Thr Phe Leu Xaa Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       125
       28
<211>
<212>
       PRT
<213>
       Artificial
<220>
       Ghrelin Analog
<223>
<220>
       MISC_FEATURE
<221>
<222>
       (5)..(5)
       Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)
<223>
<220>
       MOD_RES (28)..(28)
<221>
<222>
<223>
       AMIDATION
<400>
      125
Gly Ser Thr Phe Xaa Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       126
<211>
       28
<212>
       PRT
<213>
       Artificial
<220>
       Ghrelin Analog
<223>
<220>
       MISC_FEATURE
<221>
<222>
       (2)..(2)
       xaa = alpha-aminoisobutyric acid (Aib)
<223>
<220>
<221>
       MISC_FEATURE
<222>
       (9)..(9)
                                          Page 77
```

```
83127-11_seq_list_mar_2008.ST25.txt
        Xaa = beta-(3-pyridinyl)Ala (3Pal), beta-(4-thiazolyl)Ala (Taz),
        or beta-(2-thienyl)Ala (2Thi)
<220>
<221>
        MOD_RES
<222>
        (28)..(28)
<223>
        AMIDATION
<400>
        126
Gly Xaa Thr Phe Leu Ser Pro Glu Xaa Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
        127
        28
<211>
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
        MISC_FEATURE
<222>
        (2)..(2)
        xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
        MISC_FEATURE
<222>
        (7)..(7)
       Xaa = thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp), 3,4-dehydroPro (Dhp), pipecolic acid (Pip), or
<223>
        1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid (Tic)
<220>
       MOD_RES (28)..(28)
<221>
<222>
<223>
        AMIDATION
<400>
       127
Gly Xaa Thr Phe Leu Ser Xaa Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       128
       28
<211>
<212>
       PRT
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
```

```
83127-11_seq_list_mar_2008.ST25.txt
<220>
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        (2)..(2)
<222>
       Xaa = alpha-aminoisobutyric acid (Aib)
<223>
<220>
       MISC_FEATURE
<221>
<222>
       (5)..(5)
<223>
       Xaa = beta-cyclohexylAla (Cha)
<220>
       MOD_RES
<221>
<222>
       (28)..(28)
<223>
       AMIDATION
<400>
      128
Gly Xaa Thr Phe Xaa Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
<210>
       129
<211>
       28
<212>
       PRT
       Artificial
<213>
<220>
      Ghrelin Analog
<223>
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
       Xaa = alpha-aminoisobutyric acid (Aib)
<223>
<220>
<221>
       MISC_FEATURE
<222>
       (4)..(4)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
       MISC_FEATURE
<221>
<222>
       (9)..(9)
<223>
       Xaa = beta-(4-pyridinyl)Ala (4Pal)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400>
       129
Gly Xaa Thr Xaa Leu Ser Pro Glu Xaa Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
```

```
83127-11_seq_list_mar_2008.ST25.txt
```

```
130
<210>
        28
<211>
<212>
        PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
<222>
       MISC_FEATURE
        (2)..(2)
       Xaa = alpha-aminoisobutyric acid (Aib)
<223>
<220>
       MISC_FEATURE
<221>
<222>
        (8)..(8)
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
<222>
       MOD_RES
        (28)..(28)
<223>
       AMIDATION
<400>
       130
Gly Xaa Thr Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
<210>
       131
<211>
       28
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (1)..(1)
<223>
       Xaa = Gly or Gly modified with acyl (Ac)
<220>
<221>
<222>
       MISC_FEATURE
       (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MISC_FEATURE
<222>
       (10)..(10)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
<222>
       MOD_RES
       (28)..(28)
<223>
       AMIDATION
```

Page 80

83127-11_seq_list_mar_2008.ST25.txt

```
<400> 131
Xaa Xaa Thr Phe Leu Ser Pro Glu His Xaa Arg Val Gln Gln Arg Lys
1 10 15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
       132
28
<210>
<211>
       PRT
<212>
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
<223>
       modified with n-octanoyl, isobutyryl, or n-butyryl
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400>
       132
Gly Ser Thr Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
       133
<210>
       28
<211>
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MOD_RES
<222>
       (1)..(1) modified with n-butyryl, or acyl (Ac)
<223>
<220>
       MISC_FEATURE
<221>
<222>
       (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
<222>
       MOD_RES
       (28)..(28)
<223>
       AMIDATION
```

```
83127-11_seq_list_mar_2008.ST25.txt
<400> 133
Gly Xaa Thr Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys 1 5 10 15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       134
<211>
       8
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
<222>
       MOD_RES
       (1)..(1) modified with acyl (Ac)
<223>
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
<222>
       (8)..(8)
<223>
       AMIDATION
<400>
       134
Gly Xaa Thr Phe Leu Ser Pro Arg
<210>
       135
       28
<211>
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (8)..(8)
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
```

Gly Ser Thr Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys Page 82

<223>

<400>

AMIDATION

135

```
83127-11_seq_list_mar_2008.ST25.txt
10 15
1
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
       136
<210>
       28
<211>
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
       MISC_FEATURE
<221>
<222>
       (9)..(9)
       Xaa = beta-(4-thiazolyl)Ala (Taz), beta-(3-pyridinyl)Ala (3Pal),
<223>
       beta-(4-pyridinyl)Ala (4Pal), or beta-(2-thienyl)Ala (2Thi)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400>
       136
Gly Ser Thr Phe Leu Ser Pro Glu Xaa Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       137
<211>
       28
<212>
       PRT
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
       MISC_FEATURE
<221>
<222>
       (7)..(7)
       Xaa = 4-hydroxyPro (4Hyp)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400>
       137
Gly Ser Thr Phe Leu Ser Xaa Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
                                         Page 83
```

```
<210>
        138
<211>
        28
<212>
        PRT
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MOD_RES
<222>
        (1)...(1)
<223>
       modified with acyl (Ac)
<220>
<221>
       MOD_RES
       (3)..(3) modified with NH-hexyl
<222>
<223>
<220>
<221>
       MOD_RES
<222>
        (28)..(28)
<223>
       AMIDATION
<400>
       138
Gly Ser Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
       139
28
<210>
<211>
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
<222>
       MOD_RES
       (1)..(1) modified with acyl (Ac)
<223>
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
<222>
       MISC_FEATURE
       (10)..(10)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
```

Page 84

20

```
83127-11_seq_list_mar_2008.ST25.txt
<222>
        (28)..(28)
<223>
        AMIDATION
<400>
       139
Gly Xaa Ser Phe Leu Ser Pro Glu His Xaa Arg Val Gln Gln Arg Lys 1 	 10 	 15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
        140
<211>
       28
<212>
       PRT
       Artificial
<213>
<220>
        Ghrelin Analog
<223>
<220>
<221>
        MOD_RES
<222>
        (1)...(1)
        modified with n-butyryl
<223>
<220>
<221>
        MISC_FEATURE
<222>
        (2)..(2)
        Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
        MOD_RES
<222>
        (28)..(28)
<223>
        AMIDATION
<400>
        140
Gly Xaa Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys

10
15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
        141
<211>
<212>
        28
        PRT
        Artificial
<213>
·<220>
       Ghrelin Analog
<220>
<221>
<222>
<223>
        MISC_FEATURE
        (2)..(2)
        Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
                                           Page 85
```

```
83127-11_seq_list_mar_2008.ST25.txt
<222> (3)..(3)
<223>
       modified with NH-hexyl
<220>
<221>
       MISC_FEATURE
<222>
        (7)..(7)
<223>
       Xaa = 4-hydroxyPro (4Hyp)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
       AMIDATION
<400> 141
Gly Xaa Glu Phe Leu Ser Xaa Glu His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
<210>
       142
<211>
       28
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
       (3)..(3) modified with NH-hexyl
<222>
<223>
<220>
<221>
       MISC_FEATURE
<222>
       (8)..(8)
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
       MOD_RES
<221>
<222>
       (28)..(28)
<223>
       AMIDATION
<400>
       142
Gly Xaa Glu Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210> 143
```

```
83127-11_seq_list_mar_2008.ST25.txt
<211>
       28
<212>
       PRT
       Artificial
<213>
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
<223>
       Xaa = alpha-aminoisobutyric acid (Aib)
<220>
<221>
       MOD_RES
<222>
       (3)..(3)
       modified with NH-hexyl
<223>
<220>
<221>
       MISC_FEATURE
<222>
       (9)..(9)
<223>
       Xaa = beta-(4-pyridinyl)Ala (4Pal)
<220>
<221>
       MISC_FEATURE
<222>
       (12)..(12)
       Xaa = alpha-aminoisobutyric acid (Aib)
<223>
<220>
<221>
       MISC_FEATURE
<222>
       (15)..(15)
<223>
       Xaa = ornithine (Orn)
<220>
<221>
       MOD_RES
<222>
       (28)..(28)
<223>
      AMIDATION
<400> 143
Gly Xaa Glu Phe Leu Ser Pro Glu Xaa Gln Arg Xaa Gln Gln Xaa Lys
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       144
<211>
       27
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Ghrelin Analog
<220>
<221>
       MISC_FEATURE
<222>
       (1)..(1)
<223>
       Xaa = Ava
<220>
                                        Page 87
```

```
83127-11_seq_list_mar_2008.ST25.txt
<221> MISC_FEATURE
<222>
       (2)..(2)
       Xaa = 2,3-diaminopropionic acid (Dap) modified with
<223>
        1-octanesulfonyl
<220>
       MOD_RES
<221>
<222>
       (27)..(27)
<223>
       AMIDATION
<400>
       144
Xaa Xaa Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys Glu
10 15
Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25
<210>
       145
<211>
<212>
       PRT
<213>
      Artificial
<220>
<223>
       Growth Hormone Releasing Peptide
<220>
<221>
<222>
       MISC_FEATURE
       (2)..(2)
<223>
       Xaa = D-Tryptophan
<220>
<221>
       MISC_FEATURE
<222>
       (5)..(5)
       Xaa = D-Phenylalanine
<223>
<220>
<221>
<222>
<223>
       MOD_RES
       (6)..(6)
       AMIDATION
<400>
       145
His Xaa Ala Trp Xaa Lys
<210>
       146
       7
<211>
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Growth Hormone Releasing Peptide
<220>
<221>
       MISC_FEATURE
<222>
       (3)..(3)
<223>
       Xaa = D-beta-(2-naphthyl)Ala (D-2-Nal)
                                         Page 88
```

83127-11_seq_list_mar_2008.ST25.txt

```
<220>
      MISC_FEATURE
<221>
<222>
       (6)..(6)
<223>
      Xaa = D-Phenylalanine
<220>
<221>
      MOD_RES
<222>
       (7)..(7)
<223>
       AMIDATION
<400> 146
Ala His Xaa Ala Trp Xaa Lys
<210> 147
<211>
      6
      PRT
<212>
<213> Artificial
<220>
<223> Growth Hormone Releasing Peptide
<220>
<221>
       MISC_FEATURE
<222>
       (1)..(1)
<223>
      Xaa = D-Alanine
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
<223>
      Xaa = D-beta-(2-naphthyl)Ala (D-2-Nal)
<220>
<221>
      MISC_FEATURE
<222>
       (5)..(5)
<223>
       Xaa = D-beta-(1-naphthyl)Ala (D-Nal)
<220>
<221>
<222>
       MOD_RES
       (6)..(6)
<223>
       AMIDATION
<400> 147
Xaa Xaa Ala Trp Xaa Lys
<210>
      148
<211> 6
<212>
     PRT
      Artificial
<213>
<220>
<223>
      Hexarelin
<220>
<221>
      MISC_FEATURE
```

```
83127-11_seq_list_mar_2008.ST25.txt
<222> (2)..(2)
<223> Xaa = D-2-Me-Tryptophan
<220>
<221>
<222>
<223>
       MISC_FEATURE
        (5)..(5)
       Xaa = D-Phenylalanine
<220>
<221>
<222>
       MOD_RES
       (6)..(6)
AMIDATION
<223>
<400> 148
His Xaa Ala Trp Xaa Lys
1 5
       149
27
<210>
<211> 27
<212> DNA
<213> Artificial
<220>
<223> Oligonucleotide primer
<400> 149
                                                                                27
atgtggaacg cgacgcccag cgaagag
<210> 150
<211> 27
<212> DNA
<213> Artificial
<220>
<223> Oligonucleotide Primer
<400> 150
                                                                                27
tcatgtatta atactagatt ctgtcca
```